DEPARTMENT OF THE INTERIOR

Fish and Wildlife Service

50 CFR Part 17

Endangered and Threatened Wildlife and Plants; Proposal To Determine Agalinis acuta (Sandplain Gerardia) To Be an Endangered Species

AGENCY: Fish and Wildlife Service, Interior.

ACTION: Proposed rule.

SUMMARY: The Service proposes to determine a plant, Agalinis acuta (sandplain gerardia), to be an endangered species, and thereby provide the species protection under the authority contained in the Endangered Species Act of 1973, as amended. This species is known to occur at two sites on Cape Cod, Massachusetts, two sites on Long Island, New York, and one site in Baltimore County, Maryland. Historically, it also occurred in Connecticut and Rhode Island, but is now believed to be extirpated in these states. The species is endangered by changing land use patterns, residential and commercial development, and encroachment of woody vegetation. Historically, grazing by sheep and cattle and periodic burning of the coastal grasslands and pitch pine-scrub oak forests maintained large areas in early stages of succession. Sandy open areas free of dense competing vegetation are required for successful growth and establishment of Agalinis acuta. Changing land use patterns and residential development, which now necessitate the suppression of fires, have significantly altered and reduced the species' required habitat. Areas subjected to periodic disturbance, such as roadside rights-of-way, airport

perimeters, power lines, etc., now offer the best hope of finding as yet undiscovered populations. Due to the sensitivity and vulnerability of the few known populations, critical habitat is not being determined. Comments are solicited.

DATES: Comments from all interested parties must be received by January 19, 1988. Public hearing requests must be received by January 4, 1988.

ADDRESSES: Comments and materials concerning this proposal should be sent to: Regional Director, U.S. Fish and Wildlife Service, One Gateway Center, Suite 700, Newton Corner, Massachusetts 02158. Comments and materials received will be available for public inspection, by appointment, during normal business hours at the above address.

FOR FURTHER INFORMATION CONTACT: Richard W. Dyer at the above address (617/965-5100 or FTS/829-9316).

SUPPLEMENTARY INFORMATION:

Background

The sandplain gerardia is a plant of the snapdragon family (Scrophulariaceae) found at only five locations in Massachusetts, New York, and Maryland. The plant is an annual light-green herb from 4 to 8 inches (1 to 2 decimeters) and occasionally up to 16 inches (four decimeters) tall. The stem is weakly angular and with few branches. The leaves are opposite, linear, and up to 1 inch (2.5 centimeters) long. The pink-purple flowers appear from late August through September, are bellshaped, 0.4-0.5 inches (1 to 1.3 centimeters) long, and have two yellow lines and red or purple spots in the corolla throat. The corolla lobes are slightly notched at the tip. The species grows in dry, sandy, open areas.

The plant has a very restricted distribution due to its dependency on the periodic disturbance of its specialized and limited habitat. Most collection records for Agalinis acuta date back to the late 1800's and early 1900's. Historically, the plant was known from Cape Cod and Nantucket Island to western Long Island, inland to western Middlesex and Worcester Counties, Massachusetts, Providence County, Rhode Island, and Hartford County, Connecticut. Recent collections of the species in Baltimore County. Maryland represent the southern limit of its distribution.

Eight southern New England counties, Long Island, New York, and one northern Maryland County comprise the total known range of the species. The most significant threat to the species has been the continuing loss of grassland habitat along the coastal plain of southern New England, western Long Island, and the offshore islands of Nantucket and Martha's Vineyard. Residential, commercial and recreational development with associated ancillary developments such as shopping facilities, expanding roadways, etc., have rapidly increased in this region in the last 25–30 years.

From the turn of the century to the early 1940's the species was known to have occurred in at least 16 towns and occasionally at several sites within a given town. In spite of intensive field searches for the species in the last few vears, only five populations are now known to exist. Year-round residential developments, summer cottages, and marinas now mark historical locations for the plant. The secondary impacts of this increased urbanization, however, have also had a severe impact on the species' remaining habitat. Agalinis acuta appears to require periodic disturbance of its habitat to maintain the required sandy open areas free of dense competing vegetation. Historically, the grazing of sheep and cattle throughout the region helped maintain the grasslands or "moors" Extensive fires, often set intentionally, would also help perpetuate the grassland and suppress dense scrub oak and pitch pine forests. Agricultural use of the area has changed, however, and urbanization now requires that fires be quickly put out. Dense woody vegetation has now encroached on many historical sites for the plant. It is probably not by coincidence that the two extant populations on Cape Cod occur on the periphery of old cemeteries, where caretaking activities have helped maintain the sites.

The two known populations on Long Island are also seriously threatened by expanding urbanization and industrial development. The plant was once known from three sites in Rhode Island but has not been reported there since 1941 and is believed to be extirpated from the state (Church and Champlin 1978). The last Connecticut record for the species was in the 1930's, and it is also believed extirpated there (Mehrhoff 1978).

Agalinis acuta was first recommended for Federal listing as a threatened species by the Smithsonian Institution in its December 15, 1974, report to. Congress, "Report on Endangered and Threatened Plant Species of the United States." On July 1, 1975, the Service published a Notice of Review in the Federal Register (40 FR 27823–27924) of its acceptance of the Smithsonian report as a petition within the context of

former section 4(c)(2) of the Act (petition acceptance is now covered by section 4(b)(3) of the Act, as amended). The sandplain gerardia was recognized as a Category 2 candidate in the Service's Federal Register notice of December 15, 1980 (45 FR 82480). Category 2 candidates are defined as taxa for which existing information indicates the possible appropriateness of proposing to list as endangered or threatened, but for which sufficient information is not presently available to biologically support a proposed rule.

In the past five years intensive field investigations to more thoroughly assess the species' status in southern New England and New York have been undertaken by State natural resource agencies, The Nature Conservancy, private conservation groups and professional and amateur botanists. As a result of this work, Agalinis acuta was included in Category 1 of the Service's November 28, 1983, supplement (48 FR 53639) to the 1980 notice and a revised notice of September 27, 1985 (50 FR 39526). Category 1 taxa are defined as species for which sufficient information is on land to support the biological appropriateness for proposing to list. The presence of a small population of this species in Baltimore County, Maryland, has only come to the Service's attention recently. Preliminary information regarding this southernmost population has been provided by the Maryland Natural Heritage Program.

The Endangered Species Act Amendments of 1982 required that all petitions pending as of October 13, 1982, be treated as having been newly submitted on that date. The deadline for a finding on those petitions, including the one for A. acuta, was October 13. 1983. On October 13, 1983, October 12 1984, October 11, 1985, October 10, 1986, and again on October 13, 1987, the petition finding was made that listing Agalinis acuta was warranted but precluded by other pending listing actions, in accordance with section 4(b)(3)(B)(iii) of the Act. Such a finding requires a recycling of the petition. pursuant to section 4(b)(3)(C)(i) of the Act. Therefore, a new finding must be made on or before October 13, 1988; this proposed rule constitutes the finding that the petitioned action is warranted, and the Service proposes to implement the action in accordance with section 4(b)(3)(B)(ii) of the Act.

Summary of Factors Affecting the Species

Section 4(a)(1) of the Endangered Species Act (16 U.S.C. 1531 et seq.) and regulations promulgated to implement the listing provisions of the Act (50 CFR Part 424) set forth the procedures for adding species to the Federal lists. A species may be determined to be an endangered or threatened species due to one or more of the five factors described in section 4(a)(1). These factors and their application to Agalinis acuta Pennell (sandplain gerardia) are as follows:

A. The present or threatened destruction, modification, or curtailment of its habitat or range. The most significant threat to Agalinis acuta is the direct loss or alteration of its coastal grassland habitats. The plant is found in open sandy grasslands of southern New England and Long Island and is one of several rare species associated with the "coastal prairie" habitat type (Crow 1982). Six other plants considered by the State of Massachusetts Natural Heritage Program as being rare and threatened occur on sandplain grasslands (Coddington and Field 1978). In addition another candidate for Federal listing, the regal fritillary butterfly (Speyeria idalia), is also associated with the coastal grasslands habitat.

Land use practices have changed significantly throughout much of the coastal plain region since the turn of the century. During the early 1800's extensive areas of the coastal grasslands were used as 'commonlands" for pasturing of sheep and cattle. Individual farms and private landholdings became established during the mid 1800's but grazing and tilling for agricultural crops were still predominant. The late 1800's saw a decline in agriculture; however, the hunting of shorebirds became an important activity on the abandoned fields. Through the early 1920's extensive areas of the "moorlands" were burned intentionally in late summer to attract feeding birds to the cooked fruits of heathland plants.

The grazing and burning of the grasslands through the mid 1900's was an important factor in maintaining the coastal plain ecosystem. These periodic disturbances were also essential to maintaining sandy areas critical to the existence of Agalinis acuta. Intensive agricultural use of the grasslands today has greatly diminished and fires are accidental, infrequent, and quickly suppressed. Residential homes, summer cottages, and commercial developments have claimed many areas where Agalinis acuta formerly occurred. The suppression of fires has also allowed woody vegetation to encroach upon the open grasslands, further reducing available suitable habitat for the growth and reproduction of Agalinis acuta.

The one population of this species in Maryland occurs at Soldier's Delight, an area of unusual vegetation on serpentine-derived soil. It is a State Natural Environmental Area.

B. Overutilization for commercial. recreational, scientific or educational purposes. Although historical collections were made at many sites on Cape Cod and the islands of Nantucket and Martha's Vineyard, scientific collecting does not appear to have been a major cause of the species' decline. Because only five small populations are now known to occur, however, all of which are located in easily accessible sites, the existing populations could be threatened by exploitation for educational or scientific purposes.

C. Disease or predation. One of the populations on Long Island, New York, which is also at the largest of the five known sites, appears to be heavily browsed by rabbits and/or deer. It is not yet known, however, if the effect is beneficial or deleterious since wildlife may act as seed dispersal agents or browse competing vegetation (Zaremba 1984).

D. The inadequacy of existing regulatory mechanisms. None of the States in which the five populations currently exist, or from which the plant is believed to be extirpated, officially list Agalinis acuta as endangered or threatened. Unofficial lists for four of the States involved recognize the plant as endangered. Because of its recent discovery in Maryland, there has been no recognition of its status there. Local efforts by the Massachusetts Natural Heritage Program, under the Division of Fisheries and Wildlife, and by the Long Island Chapter of The Nature Conservancy have contributed significantly to protecting the few known populations by contacting local landowners and seeking support for conserving the plants. The Massachusetts Division of Fisheries and Wildlife has authority to inventory, manage, protect, and administer programs for native plants, and it is anticipated that Agalinis acuta will soon be added to the official State list.

Connecticut, Rhode Island, New York, and Maryland have all been determined eligible for cooperative plant agreements as specified under section 6(c)(2) of the Endangered Species Act. A similar plant cooperative agreement with Massachusetts is pending final determination of eligibility. Section 6 cooperative agreements between the appropriate State agencies and the Service will provide opportunities to carry out further conservation programs on behalf of listed species. Listing under

the Endangered Species Act would therefore provide further protection for this species and its habitat.

E. Other natural or manmade factors affecting its continued existence. Although it is known that the sandplain gerardia is an annual plant and requires open sandy areas for successful germination and growth, other aspects of the species' biology are not well understood. The small number and size of the existing populations are cause for concern, as natural factors or chance adverse events could have serious impacts on the species' continued existence. Natural successional changes, random destructive events that might severely alter the species' habitats, or any failure in reproduction resulting in genetic depletion could be catastrophic.

The Service has carefully assessed the best scientific information available regarding the past, present, and future threats faced by this species in determining to propose this rule. Based on this evaluation the preferred action is to list Agalinis acuta as endangered. Due to the encroachment of woody vegetation on coastal grasslands and rapid residential and commercial development, the few remaining populations are particularly vulnerable and in need of protection. Critical habitat is not proposed to be designated for the reasons outlined below.

Critical Habitat

Section 4(a)(3) of the Act, as amended, requires that to the maximum extent prudent and determinable, the Secretary designate any habitat of a species which is considered to be critical habitat at the time the species is determined to be endangered or threatened. The Service finds that designation of critical habitat is not prudent for this species at this time. The Service believes that publication of specific areas in which Agalinis acuta occurs would likely subject the species to increased disturbance by curiosity seekers and vandals. These potential threats are of particular significance since the sites are easily accessible, and increased public access would be difficult to control under existing authorities. Consequently, no critical habitat is proposed for this species.

Available Conservation Measures

Conservation measures provided to species listed as endangered or threatened under the Endangered Species Act include recognition, recovery actions, requirements for Federal protection, and prohibitions against certain practices. Recognition through listing encourages and results in conservation actions by Federal and

State agencies, private conservation organizations and individuals. The Nature Conservancy has already made significant contributions to conserving the species by contacting the owners of land containing known populations in Massachusetts and New York and encouraging them to assist in protecting the sites. Additional recovery measures might include maintaining coastal plain grassland vegetation by controlling the encroachment of woody species and reintroducing the species into areas of historical habitat from which it is now extirpated. Other conservation measures, including required protection efforts by Federal agencies and prohibitions against collecting are discussed, in part, below.

Section 7(a) of the Act, as amended, requires Federal agencies to evaluate their actions with respect to any species that is proposed or listed as endangered or threatened, and with respect to its critical habitat, if any is being designated. Regulations implementing this interagency cooperation provision of the Act are codified at 50 CFR Part 402. Section 7(a)(4) requires Federal agencies to informally confer with the Service on any action that is likely to jeopardize the continued existence of a proposed species or result in destruction or adverse modification of proposed critical habitat. If a species is subsequently listed, Section 7(a)(2) requires Federal agencies to ensure that activities they authorize, fund, or carry out are not likely to jeopardize the continued existence of such a species or to destroy or adversely modify its critical habitat. If a Federal action may affect a listed species or its critical habitat, the responsible agency must enter into formal consultation with the Service. There is no known current Federal action that is likely to affect the sites where Agalinis acuta exists.

The Act and its implementing regulations found at 50 CFR 17.61 and 17.62 set forth a series of general trade prohibitions and exceptions that apply to all endangered plant species. With certain exceptions, these prohibitions make it illegal for any person subject to the jurisdiction of the United States to import or export any endangered species of plant, transport it in interstate or foreign commerce in the course of a commercial activity, sell it or offer it for sale in interstate or foreign commerce, or remove it from an area under Federal jurisdiction and reduce it to possession. The Act and 50 CFR 17.62 also provide for the issuance of permits to carry out otherwise prohibited activities involving endangered species under certain circumstances. There is no known commercial trade in Agalinis acuta and

the Service therefore anticipates few, if any, requests for such permits. Requests for copies of the regulations on plants and inquiries regarding them may be addressed to the Federal Wildlife Permit Office, U.S. Fish and Wildlife Service, Washington, DC 20240 (703/235-1903).

Public Comments Solicited

The Service intends that any final rule adopted will be accurate and as effective as possible in the conservation of endangered or threatened species. Therefore, any comments or suggestions from the public, other concerned governmental agencies, the scientific community, industry, or any other interested party concerning any aspect of these proposed rules are hereby solicited. Comments are particularly sought concerning the following:

- (1) Bological, commercial trade, or other relevant data concerning any threat (or lack thereof) to Agalinis
- (2) The location of any additional populations of this species and the reasons why any habitat should or should not be determined to be critical habitat as provided by section 4 of the
- (3) Additional information concerning the range and distribution of this species; and
- (4) Current or planned activities that may impact existing populations.

Final promulgation of a regulation on Agalinis acuta will take into consideration the comments and any additional information received by the Service, and such communications may lead to a final regulation that differs from this proposal.

The Endangered Species Act provides for a public hearing on this proposal, if one is requested within 45 days of the date of publication of this proposed rule. Such requests must be made in writing and addressed to the Regional Director, U.S. Fish and Wildlife Service, One Gateway Center, Suite 700, Newton Corner, Massachusetts 02158.

National Environmental Policy Act

The Service has determined that an Environmental Assessment, as defined under the authority of the National Environmental Policy Act of 1969, need not be prepared in connection with regulations adopted pursuant to section 4(a) of the Endangered Species Act of 1973, as amended. A notice outlining the Service's reasons for this determination was published in the Federal Register on October 25, 1983 (48 FR 49244).

Literature Cited

Church, G.L. and R.L. Champlin, 1978, Rare and endangered vascular plant species in Rhode Island. U.S. Fish and Wildlife Service. Region 5. Newton Corner. Massachusetts.

Coddington, I. and K.G. Field. 1978. Status Report: Agalinis acuta in Massachusetts. U.S. Fish and Wildlife Service, Region 5, Newton Corner, Massachusetts, 5 pp. Unpublished report.

Crow, G.E. 1982. New England's rare. threatened, and endangered plants. U.S. Government Printing Office, Washington, DC. 129 pp.

Mehrhoff, L.F. 1978. Rare and endangered vascular plant species in Connecticut. U.S. Fish and Wildlife Service, Region 5. Newton Corner, Massachusetts.

Zaremba, R.E. 1984. Site survey summary. New York Heritage Program. Unpublished report.

Author

The author of this proposed rule is Richard W. Dyer, Endangered Species Staff, U.S. Fish and Wildlife Service, One Gateway Center, Suite 700, Newton Corner, Massachusetts 02158 (617/965-5100 or FTS: 829-9316).

List of Subjects in 50 CFR Part 17

Endangered and threatened wildlife. Fish, Marine mammals, Plants (agriculture).

Proposed Regulation Promulgation

Accordingly, it is hereby proposed to amend Part 17, Subchapter B of Chapter I, Title 50 of the Code of Federal Regulations, as set forth below:

PART 17—[AMENDED]

1. The authority citation for Part 17 continues to read as follows:

Authority: Pub. L. 93-205, 87 Stat. 884: Pub. L. 94-359, 90 Stat. 911; Pub. L. 95-632, 92 Stat. 3751; Pub. L. 96-159, 93 Stat. 1225; Pub. L. 97-304, 96 Stat. 1411 (16 U.S.C. 1531 et seg.).

2. It is proposed to amend § 17.12(h) by adding the following, in alphabetical order under the family Scrophulariaceae, to the List of **Endangered and Threatened Plants:**

§ 17.12 [Amended]

(h)

Species				A lintagia annua		When listed	Critical habitat	Special
Scientific name	Common name		- m	Historic range		when listed	habitat	rules
Scrophulariaceae—Snapdragon family:	•	•	•	•	•	•	•	
Agalinis acuta	. Sandolain gerardia		U.S.A. (CT, MA,	MD, NY, RI)	E	•	NA.	NA.

Dated: October 22, 1987.

Susan Recce.

Acting Assistant Secretary for Fish and Wildlife and Parks.

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